Applicant: Paul T. Bender Attorney's Docket No.: 02103-0381001 / AABOSS16

Serial No. : 10/657,496
Filed : September 8, 2003

Page : 2 of 6

## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

(currently amended) A-An active vehicle suspension system with fail-safe operation comprising:

an actuator with an armature and a stator,

the stator having at least one coil with coil ends,

power electronics connected to the coil ends constructed and arranged to deliver power to the actuator through the coil ends, and

switch circuitry a fail-safe clamping circuit connected to the coil ends powered by energy, produced from movement of the actuator that is directly conveyed to the switch circuitry from electric terminals of the actuator, the switch circuitry clamping circuit from the coil ends, to passively damp the actuator during a failure of a the power supply for providing power to the actuator clamping the coil ends together.

## (cancelled)

- 3. (currently amended) The system of claim  $2\underline{1}$  in which-the coil assembly comprises a multiple-phase coil assembly; there are multiple coils, and the switch clamping circuit electrically connects one-or-more-coil ends together to change the passive damping characteristic of the actuator.
- (currently amended) The system of claim 21 in which the switch-circuitry clamping circuit comprises a solid-state device.
- (currently amended) The system of claim 4 also comprising a clamping circuit comprising a rectifier; and in which the switch circuitry comprises a single unidirectional switch.

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Serial No.: 10/657,496 Filed: September 8, 2003

Page : 3 of 6

6. (currently amended) The system of claim 1 in which the actuator comprises an armature and a stator, a movement of the actuator generating a back electromotive force (EMF) as a result of the armature moving relative to the stator within the actuator, the back EMF powering the switch-circuitry clamping circuit.

- (previously presented) The system of claim 6 also comprising a supplemental circuit for boosting the back EMF.
- (original) The system of claim 7 in which the supplemental circuit comprises a bipolar Royer oscillator capable of operating at an input voltage of approximately 0.5 volts.
- (currently amended) The system of claim 1 in which the switch eircuitry clamping circuit comprises switch circuitry enabled during vehicle startup and shutdown.
  - 10. (cancelled)
- (currently amended) The system of claim 1 in which the switch circuitry clamping circuit comprises switch circuitry pulsed to change the passive damping characteristic of the actuator.
  - 12.-72. (cancelled)